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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Atty Ref:G25-063 Seri

Serial No: 09/849,870

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

United States Patent Documents							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date	
RL	5,602,246	02/11/97	Baumann et al.	536	055.300	11/25/92	
1	5,668,270	09/16/97	Baumann et al.	536	026.710	06/06/95	
	4,874,609	10/17/89	Rideout et al.	424	085.400		
V	4,724,232	02/09/88	Rideout et al.	514	050.000		
R	4,818,538	04/04/89	Rideout et al.	424	436.000		

	Foreign Patent Documents							
Examiner	Document	Date	Country	Class	Subclass	Transla	ation	
Initial	Number					Yes	No	
JL.	0 217 207	04/08/87	Europe					
1	3 627 024	04/02/87	Germany					

	Other Documents					
Examiner Initial	Citation					
PL	Adamiak et al., "Synthesis of 6-Substituted Purines and ribonucleosides with N-(6-Purinyl)pyridinium Salts," Angewandte Chemie, Intl. Ed., 24(12):1054-1055 (December, 1985).					
R	Agarwal, R.P. et al., "Clinical Pharmacology of 9-β-D-Arabinofuranosyladenine in Combination with 2'-Deoxycoformycin," <i>Cancer Res.</i> , 42(9):3884-3886 (September, 1982).					

Examiner:	flate.	Len	Date Considered:	1-27-05
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Atty Ref:G25-063 Serial No: 09/849,870

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

R	Anderson, B.D. et al., "Uptake Kinetics of 2',3'-Dideoxyinosine into Brain and Cerebrospinal Fluid of Rats: Intravenous Infusion Studies," J. Pharmacol. Exp. Ther., (1990) 253(1):113-118.
. 1	Andrei, G. Et al., "Comparative Activity of Various Compounds Against Clinical Strains of Herpes Simplex Virus," Eur. J. Clin. Microbiol. Infect. Diseases, (1992) 11(2):143-151.
	Balzarini, J. And DeClercq, E., "The Antiviral Activity of 9-β-D Arabinofuranosyladenine is Enhanced by the 2',3'-Dideoxyriboside, the 2',3'-Didehydro-2',3'-Dideoxyriboside and the 3'-Azido-2',3'-Dideoxyriboside of 2,6-Diaminopurine," <i>Biochem. Biophys. Res. Commun.</i> , (1989) 159:61-67.
	Barchi, J.J. Jr. et al., "Potential Anti-AIDS bDrugs. Lipophilic, Adenosine Deaminase-Activated Prodrugs," J. Med. Chem., (1991) 34:1647-1655 (Issue No. 5).
	Budavari et al. (Eds.), The Merck Index, 11th Edition, Merck & Co., Rahway, NJ, November 1989, Page 1597, see entry No. 10023 and references therein.
	Cass, C.E. et al., "Antiproliferative Effects of 9-β-D Arabinofuranosyladeniine-5'-Monophosphate and Related Compounds in Combination with Adenosine Deaminase Inhibitors Against Mose Leukemia L1210/C2 Cells in Culture," Cancer Res., 39(5):1563-1569, (May, 1979).
	Cass E.C., "9-β-D-Arabinofuranosyladenine (Ara-A)," In Antibiotics. Mechanism of Action of Anti-Eukaryotic and Antiviral Compounds; Hahn, F.E., Ed.; Springer-Verlag: New York (1979) V: 85-109.
	Cass, C.E. and Ah-Yeung, T.H., "Enhancement of 9-β-D-Arabinofuranosyladenine Cytotoxicity to Mouse Leukemia L1210 <i>in vitro</i> by 2'-Deoxycoformycin," <i>Cancer Res.</i> , (1976) 36:1486-1491 (April, 1976).
	Chatis, P.A. and Crumpacker, C.S., "Resistance of Herpesviruses to Antiviral Drugs," <i>Antimicrob. Agents and Chemother.</i> , (1992) 36:1589-1595 (Issue No. 8, August, 1992).
	Chien, R.N. and Liaw, Y.F., "Drug Therapy in Patients with Chronic Type B Hepatitis," J. Formos. Med. Assoc., (1995) 94(suppl. 1):S1-S9 (English Abstract only) (June, 1995).
PC	Chu, C.K. et al., "Synthesis and Structure-Activity Relationships of 6-Substituted 2',3'-Dideoxypurine Nucleosides as Potential Anti-Human Immunodeficiency Virus Agents," <i>J. Med. Chem.</i> , (1990) 33:1553-1561 (Issue No. 6).

Examiner:	Alax	/hz	Date Considered:	1-27-05
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INFORMATION DISCLOSURE **CITATION IN AN APPLICATION**

Atty Ref:G25-063

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

R	Collins, J.M. et al., "Pyrimidiine Dideoxyribonucleosides: Selectivity of Penetration into Cerebrospinal Fluid," J. Pharmacol, Exp. Ther., (1988) 245(2):466-470.
1	Cretton, E.M. and Sommadossi, J-P., "Reduction of 3'-Azido-2',3'-Dideoxynucleosides to Their 3'-Amino Metabolite is Mediated by Cytochrome P-450 and NADPH-Cytochrome P-450 Reductase in Rat Liver Microsomes," <i>Drug Metab. Dispos.</i> , (1993) 21:946-950 (No. 5).
	Cretton, E.M. et al., "Catabolism of 3'-Azide-3'-Deoxythymidine in Hepatocytes and Liver Microsomes with Evidence of Formation of 3'-Amino-3'-Deoxythimidine, a Highly Toxic Catabolite for Human Bone Marrow Cells," <i>Molec. Pharmacol.</i> , (1991), 39:258-266.
	Darby, G. (1995), "In Search of the Perfect Antiviral," Antiviral chem. & Chemother., 6:54-63.
	Denis, J. et. al., "Treatment of Superficial Herpes Simplex Keratitis with Vidarabine (Vira A): Multicenter Study of 100 Cases," J. Fr. Ophthalmol., (1990) 13:143-150 (English Abstract Only) (Issue No. 3).
	Drach, J.C. and Shipman, C. Jr., "The Selective Inhibition of Viral DNA Synthesis by Chemotherapeutic Agents: an Indicator of Clinical Usefulness?" <i>Ann. NY Acad Sci.</i> , (1977) 284:396-409.
	Drusano, G.L. et al., "Impact of Bioavailability on Determination of the Maximal Tolerated Dose of 2',3'-Dideoxyinosine in Phase I Trails," <i>Antimicrob. Agents Chemotherapy</i> , (1992) 36(6):1280-1283 (June, 1992).
	Faulds, D. and Brogden, R.N., "Didianosine: a Review of Its Antiviral Activity, Pharmacokinetics Properties and Therapeutic Potential in Human Immunodeficiency Virus Infection," <i>Drugs</i> , (1992) 44:94-116 (Issue No. 1).
	Frederiksen, S. and Klenow, H. (1975), "3-Deoxyadenosine and Other Polynucleotide Chain Terminators," In <i>Handbook of Experimental Pharmacology</i> , (A.C. Sartorelli and G. Johnes, Ed.) 657-689. (Chapter 66).
	Fu, X.X., "Therapeutic Effect of Combines Treatment with Ara-A, Dauriciine and Chinese Herbs in Chronic Hepatitis B Infection," Chung. Hua. Nei Ko. Tas. Chih, (19991) 30(8):498-501 (English Abstract Only) (August, 1991).
PL	Gerlowski, L.E. and Jain, R.K., "Physiologically Based Pharmacokinetic Modeling: Principles and Applications," <i>J. Pharm. Sci.</i> , (1983) 72:1103-1126 (October, 1983).

Examiner:	Patini	Admi	Date Considered:	1-27-05
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Atty Ref:G25-063

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

R	Gibaldi, M. and Perrier, D., "Clearance Concepts." In: Pharmacokinetics, 2nd ed., Marcel Dekker Inc., New York (1982) 319-353.
1	Hakimelahi, G. H. and Khalafi-Nezhad, A. "The Role of Chloromethyl Ethers in the Formation of N(7) - and N(9) - Alkylated Isomers of Adenine Synthesis of 2-[9-(Ethoxymethyl)Adenyl] Phoshonate", J. Sci, I. R. Iran, 1(3): pp. 192-196, 1990.
	Jansen, R.W. et al., "Coupling of Antiviral Drug Ara-AMP to Lactosaminated Albumin Leads to Specfic Uptake in Rat and Human Hepatocytes," <i>Hepatology</i> (1993) 18:146-152 (July, 1993).
	Johns, D.G. and Adamson, R.H. (1976), "Enhancement of the Biological Activity of Cordycepin (3'-Dexoyadenonsine) by the Adenosine Deaminase Inhibitor 2'-Deoxycoformycin," <i>Biochem. Pharmacol.</i> (1976) 25:1441-1444.
	Johnson et al., "Synthesis of Potential Anticancer Agents. XIII> Ribosides of 6-Substituted Purines," J. American Chemical Society, 80:699-702 (March-April 1994).
	Kamali, F., et al. (1988), "Medicinal Azides Part 3. The Metabolism of the Investigational Antitumor Agent Meta-Azidepyrimethamine in Mouse Tissue in vitro," Xenobiotica 18: 1157-1164.
	Kojima et al. "Synthesis and Structure-Activity Relationships of 2',3'-Dideoxypurine Nucleosides as Potential Antiretroviral Agents," Oxford University Press: Abstract, 1991.
	Koudriakova, T. et al., "In vitroand in vivo Evaluation of 6-Azido-2',3'-Dideoxy-2'-Fluoro-β-D-Arabinofuranosylpurine (FAAddP) and 6-Methyl-2',3'-Dideoxy-2'-Fluoro-β-D-Arabinofuranosyladenine (FMAddA) as Prodrugs of the Anti-HIV Nucleosides, 2'-F-Ara-ddA and 2'-F-Ara-ddI," (1996) J. Med. Chem. 39(23):4676-4681.
	Kumar, R., et al., (1994), "Synthesis, in vitro Biological Stability, and Anti-HIV Activity of 5-Halo-6-Alakoxy (or Azide) -5,6-Dihydro-3'-Azido-3'Deoxythymidine (AZT)," J. Med. Chem. 37:4297-4306 (Issue No. 25).
V	LePage, G.A. et al., "Enhancement of Antitumor Activity of Arabinofuranosyladene by 2'-Deoxycoformycin," Cancer Res., 36(4):1481-1485 (April, 1976).
PZ	Marquez, V.E. et al., "Acid-Stable 2'-Fluoro Purine Dideoxynucleosides as Active Agents Against HIV," J. Med. Chem. (1990) 33: 978-985 (Issue No. 3).

Examiner:	Date Considered:	1-27-05				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if						



TECHCENTER 1600/2900 Page 5

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Page 5 of 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Atty Ref:G25-063

Applicants: Chu et al.

Filing Date: 5/4/01

R	Miser, J.S. et al., "Lack of Significant Activity of 2'-Deoxycoformycin Alone or in Combination with Adenine Arabinoside in Relapsed Childhood Acute Lymphoblastic Leukemia. A Randomized Phase II Trial from Children's Cancer Study Group," Am. J. Clin. Oncol. (1992) 15:490-493 (Issue No. 6).
	Montgomery et al, "A Convenient Method for the Synthesis of 2-Fluoro Adenosine," J. Organic Chemistry, 33(1):432-434 (January, 1968).
	Nicholls, D., et al. (1991), "Medicinal Azides. Part 8. The in vitro Mctabolism of P-Substituted Phenyl Azides," Xenobiotica 21:935-943. (Issue No. 7).
	Nitta, K. et al., "Sensitivities to Other Antiviral Drugs and Thymidine Kinase Activity of Aciclovir-Resistant Herpes Simplex Virus Type 1," Nippon. Ganka. Gakkai. Zasshi (1994) 98:513-519 (English Abstract Only) (June 1994).
	Ozala et al., "On the Synthesis of 8-Heteroaryl-Substituted 9-(β-D-ribufuranosyl)-2, 6-diaminopurines through Pd-Catalyzed Coupling in the Presence of Cupric Oxide," <i>Journal of Heterocyclic Chemistry</i> , 32(3):863-866 (May-June, 1995).
	Placidi, L. et al., "Reduction of 3'-Azido-3'-Deoxythymidine to 3'-Amino-3'-Deoxythymidine I Human Liver Microsomes and Its Relationship to Cytochrome P-450," Clin. Pharmacol. Ther. (1993) 54:168-176 (Issue No. 2, August, 1993).
	Plunkett, W. et al., "Modulation of 9-β-D-Arabinofuranosyladenine-5'-Triphosphate and Deoxyadenosine-Triphosphate in Leukemic Cells by 2'-Deoxycoformycin During Therapy with 9-β-D-Arabinfuranosyladenine," Cancer Res. (1982) 42(5):2092-2096 (May, 1982).
	Quiggle et al., "Design of New Photoafinity Lables for Ribosomal Peptidyltransferase," Biochemsitry, 17(1):94-101 (January, 1978).
	Ratsep et al., "8-Diazoguanosine, 2,8-Diaminoadenosine and Other Purine Nucleosides Derived from Guanosine," <i>Nucleosides Nucleotides</i> , 9(8):1001-1013 (1990); only Abstract supplied.
V	Reist, E.J. et al., "Potential Anticancer Agents. LXXVI. Synthesis of Purine Nucleosides of β-D-Arabinofuranose," J. Org. Chem. (1962) 27:3274-3279 (September, 1962).
PZ	Resegotti, L., "Treatment of Acute Non-Lymphoid Leukemia (ANLL) in elderly patients. The Gimema Experience," <i>Leukemia</i> (1992) 6(suppl. 2):72-75.

Examiner:	Sax.	Alex		Date Considered:	1-2	7-15	
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION Atty Ref:G25-063

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

R	Riquelme et al., "Conformational and Allosteric Changes in Furctose 1,6-Bisphosphate Upon Photoaffinity Labeling with 2-Azidoadenosine Monophosphate," J. Biological Chemistry 258(13):8240-8245 (July 10, 1983).
	Robins et al.(I), "Nucleic Acid Related Compounds. 33," Canadian Journal of Chemistry 59(17):2601-2607 (September 1, 1981).
	Robins et al.(II), "The Synthesis of 2-, 6-, and 2, 6-Halogens Substituted 9-(2, 3, 5-tri-O-acetyl-β-D-ribofuranosyl)purines," in Nucleic Acids Research Symposium Scries No. 9, A. E. Pritchard (ed.), Bechyne Castle, Czechoslovakia, September 6-11, 1981, pages 61-63.
	Robins, M.J. and Bason, G.L., "6-Chloro-9-(2-deoxy-β-D-erythro-pentofuranosyl)purine from the Chlorination of 2'-deoxyinosine," In: Nucleic Acid Chemistry; Townsend, L.B.; Tipson, R.S., Eds.; John-Wiley & Sons: New York (1978) Part II, pp. 601-606.
	Rocci, M.L. Jr. and Jusko, W.J., "LAGRAN Program for Area and Moments in Pharmacokinetic Analysis," Comp. Prog. Biomed. (1983) 16(3):203-216.
	Roy et al., "8-Azidoadenosine and Ribonucleotide Reductase," Biochemical and Biophysical Research Communications, 187(1):432-437 (1992); only abstract supplied.
	Seiter et al., "Synthesis of Novel Spin-Labeled Photoaffinity Derivatives of NAD+ and ATP and Their Characterization as Coenzymes and Substrates of Several Enzymes," <i>Synthesis</i> , Issue No. 2, 269-273 (February, 1996).
	Schulze, P. and Sönnichsen, "the Management of Herpes Zoster Infections," (1993) Virus & Life, 13-16 (September, 1993).
	Shanmuganathan, K. et al., "Enhanced Brain Delivery of an Anti-HIV Nucleoside 2'-F-ara-ddI by Xanthine Oxidase Mediated Biotransformation," <i>J. Med. Chem.</i> (1994) 37:821-827.
	Stula, D. and Lyrer, P., "Severe Herpes simplex Encephalitis: Course 15 Years Following Decompressive Craniotomy," Schweiz. Med. Wochenschr. (1992) 122:1137-1140 (English Abstract Only) (July 25, 1992).
	Suzuki, Y. et al., "Cytomegalovirus Encephalitis in Immunologically Normal Adults," Rinsho. Shinkeigaku (1990) 30:168-173 (English Abstract Only) (February, 1990).
R	Svendsen, K.R. et al. (1992), "Toxicity and Metabolism of 3'-deoxyadenosine N'-oxide in Mice and Ehrlich Ascites Tumor Cells," Cancer Chemother. Pharmacol. (1992) 30:86-94.

Examiner: Makes	Date Considered:	1-27-05					
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if							



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Atty Ref:G25-063 Serial No. 09/849,870

Applicants: Chu et al.

Filing Date: 5/4/01 Art Unit: 1623

PC	Tartaglione, T.A. et al., "Principles and Management of the Acquired Immunodeficiency Syndrome," In: Pharmacotherapy. A Pathophysiologic Approach, J.T. DiPiro et al. (Eds.) Appleton and Lange, Norwalk, CN (1993) 1837-1867 (Chapter 112).
	Tritsch, G.L. et al., "Synergism Between the Antiproliferative Activities of Arabinosyladeniine and N ⁶ -Benzoyladenosine," <i>Cancer Biochem. Biophys.</i> (1977) 2(2):87-90.
	Tuntland, T. et al., "Afflux of Zidovudine and 2',3'-dideoxyinosine out of the Cerebrospinal Fluid when Administered Alone and in Comination to Macaca Nemestina," <i>Pharm. Res.</i> (1994) 11:312-317 (Issue No. 2).
	Vinayak et al., "Nucleic Acid Related Compounds. 81," Journal of Heterocyclic Chemistry 30(5), 1181-1189 (October-November, 1993).
	Weigend et al., "Fluorescent Guanosine Nucleotide Analogs Suitable for Photoaffinity-Labeling Expreiments," European J. Biochemistry 65(2):473-479 (1976): Chemical Abstracts 85(7), p. 189 Abstract No. 42417b (August 16, 1985), only abstract supplied.
	Wetzel, R. and Eckstein, F., "Synthesis and Reactions of 6-Methylsulfonyl-9-β-D-ribofuranosylpurine," J. Org. Chem. (1975) 40(5):658-660.
	Whitley, R.J., "Neonatal Herpes Simplex Virus Infections," J. Med. Virol. (1993), Suppl. 1, 13-21.
	Whitley, R.J., "Herpes Simplex Virus Infections of the Central Nervous System. Encephalitis and Neonatal Herpes," <i>Drugs</i> (1991) 42:406-427 (Issue No. 3).
	Whitley, R.J., "Vidarabine: A Preliminary Review of its Pharmacological Properties and Therapeutic Use," <i>Drugs</i> (1980) 20:267-282.
	Wower et al., "Synthesis of 2,6-Diazido-9-(β-D-ribofuranosyl)purine 3', 5'-Bisphosphate: Incorporation Into Transfer RNA and Photochemical Labeling of Escherichia coli Ribosomes," Bioconjuate Chemsitry 5(2), 158-161 (March-April 1994).
	Yang, T.Y. et al., "Studies on Pharmacokinetics of 9-β-D-arabinosyladenine Nanocapsules," Yao. Hsueh. Hsuech. Pao. (1992) 27(12):923-927 (English Abstract Only).
01	Yao-Zhong Xu, "Post Synthetic Introduction of Labile Functionalities onto Purine Residues via 6-Methylthiopurines in Oligodeoxyribonucleotides," Tetrahedron, 52(32), 10737-10750 (August 5,

Examiner:	Date Considered:	1-27-05	
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Yener, K. Et al., "Cordycepin Selectively Kills TdTpPositive Cells," Abstrct of (p. 19)
Presentation to American Soc. Of Clin. Oncology Meeting Vol, 12, 276, March 199

Yuan, J., "Estimation of Variance of AUC in Animal Studies," J. Pharm. Sci. (1993) 82(1976)
763 (July 1993).

Examiner: Date Considered: 1-27-05

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		Uni	ted States Patent D	ocuments	<u> </u>			
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United States Patent Documents							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date	

Foreign Patent Documents								
Examiner Initial	Publication Number	Publication Date	Country	Class	Subclass	Trans Yes	ation No	
<u> </u> <u> </u>	0 400 686 0 145 207	12/5/90 6/19/85	Europe Europe					

Examiner Initial	Other Documents (by Title, Author Date, Pertinent Pages, Etc.)
PL	Kotra, L.P. et al. "Synthesis, Biotransformation, and Pharmacokinetic Studies of 9-(β-D-Arabinofuranosyl)-6-azidopurine: A Prodrug for Ara-A Designed To Utilize the Azide Reduction Pathway" J. Med. Chem. 39, 5202-5207 (1996).

Examiner:	Matri	Lans	Date Considered:	12705	

EXAMINER: Mitial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.